Q. On page 18 of the Upgrade Transmission Line Corridor Report reference is made to the proposed combustion turbine for Holyrood being capable of operation as a synchronous condenser and that should this not occur, additional MVAR requirements will need to be in service for the Labrador Island Link. The proposed gas turbine for Holyrood does not have synchronous condenser capability. How is this deficiency being addressed and what, if any, implications does it have for the proposed 230kV line?

A. For the discussion concerning deficiencies associated with the lack of synchronous condenser capability on the combustion turbine being proposed for Holyrood, please refer to Hydro's response to CA-NLH-003.

The stability studies included in the Upgrade Transmission Line Corridor Report demonstrate that the addition of a large number of synchronous condensers at Soldiers Pond is ineffective in solving the transient stability issues. The analysis demonstrates the technical feasibility of the Bay d'Espoir to Western Avalon transmission line to solve the stability issues. The new 230 kV transmission line is required regardless of the reactive power deficiency introduced by the proposed Holyrood combustion turbine. As noted in Hydro's response to CA-NLH-003, Hydro has a number of options to investigate to determine the least cost alternative to meeting the reactive power deficiency.